

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE^{1/4} SE^{1/4}SE^{1/4} sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M), WDR UT-01-1: 2000, daily values.

GAGE.--Water-stage recorder. Elevation of gage is 6,500 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 252 ft³/s, May 17, gage height, 4.93 ft; minimum daily discharge, 1.8 ft³/s, Dec 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.0	4.5	e4.2	e8.0	e3.1	e2.8	5.5	55	101	e15	e11	5.7
2	e3.0	4.8	e4.5	e5.0	e3.2	2.8	8.1	53	94	e15	e11	5.8
3	e3.0	5.2	e4.2	e7.0	e3.3	2.8	7.6	32	86	e15	e11	5.7
4	e3.0	7.4	e4.6	e8.0	e3.5	2.8	5.6	24	80	e15	10	5.7
5	e3.0	4.5	e4.9	e6.0	e3.7	2.8	5.7	21	75	e15	8.9	5.4
6	e3.0	5.6	e4.8	e5.0	e4.0	3.2	5.3	21	71	e15	8.8	5.3
7	e3.0	4.4	e4.0	e4.5	e3.7	3.8	4.4	20	67	e15	9.4	5.1
8	e3.0	4.7	e3.4	e6.0	e3.2	4.2	2.9	30	64	e14	8.5	5.1
9	e3.0	e4.0	e2.2	e7.0	e3.3	4.1	3.1	46	61	e14	9.6	5.4
10	e3.2	e3.8	e2.6	e6.0	e3.4	3.8	e3.0	72	57	e14	9.6	5.4
11	3.4	e3.3	e3.0	e4.2	e3.2	3.9	e3.3	88	51	e14	8.4	5.1
12	4.8	e3.2	e2.0	e3.0	e3.4	4.3	e3.1	100	51	e14	7.7	5.1
13	4.4	e3.5	e1.8	e2.7	e3.3	3.9	e3.5	115	45	e14	10	5.1
14	4.4	e3.6	e2.0	e5.0	e3.0	3.9	e3.2	128	39	e14	8.9	5.1
15	4.3	e3.4	e2.5	e3.5	e2.8	4.1	e3.2	141	34	e14	7.9	4.9
16	4.2	e3.3	e3.0	e3.2	e3.0	4.1	3.3	164	30	e14	7.4	5.1
17	4.1	e3.7	e3.8	e2.7	e3.0	3.5	5.6	193	27	e13	7.1	5.5
18	4.1	e4.0	e3.3	e2.7	e3.1	2.9	9.3	178	25	e13	6.8	4.9
19	4.0	e5.0	e3.7	e3.0	e3.3	3.5	12	177	23	e13	6.8	4.9
20	3.9	e7.0	e4.8	e3.0	e3.4	4.4	9.1	166	21	e13	7.4	4.8
21	4.8	e6.9	e5.9	e3.1	e3.5	5.7	6.0	148	20	e13	7.3	4.6
22	4.8	e6.3	e5.0	e3.0	e3.2	10	4.3	145	19	e13	7.2	4.7
23	6.4	e5.2	e5.0	e3.0	e2.5	10	3.9	145	19	e12	6.9	4.6
24	6.9	e5.7	e4.0	e3.1	e3.1	8.2	6.7	148	20	e12	6.6	4.4
25	4.8	e4.8	e3.5	e3.0	e3.0	8.5	8.8	153	18	e13	6.2	4.3
26	4.5	e6.0	e4.0	e3.1	e3.1	8.3	13	151	19	e12	5.9	4.2
27	4.7	e6.5	e6.0	e3.0	e3.0	6.8	16	145	18	e12	6.0	4.1
28	5.5	e6.0	e5.0	e2.8	e2.6	5.9	21	138	e15	e11	5.9	4.1
29	4.7	e4.0	e5.2	e3.1	---	5.1	27	132	e15	e12	5.8	4.3
30	4.6	e3.9	e6.0	e2.9	---	4.3	36	118	e15	e11	5.9	4.4
31	4.9	---	e7.0	e3.0	---	4.5	---	109	---	e11	5.9	---
TOTAL	128.4	144.2	125.9	128.6	89.9	148.9	249.5	3356	1280	415	245.8	148.8
MEAN	4.14	4.81	4.06	4.15	3.21	4.80	8.32	108	42.7	13.4	7.93	4.96
MAX	6.9	7.4	7.0	8.0	4.0	10	36	193	101	15	11	5.8
MIN	3.0	3.2	1.8	2.7	2.5	2.8	2.9	20	15	11	5.8	4.1
AC-FT	255	286	250	255	178	295	495	6660	2540	823	488	295

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	8.37	6.72	5.30	4.83	4.67	6.18	18.4	99.9	134	43.4	16.5	10.6
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1995	1983	1995
MIN	4.14	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	11.9	5.75	3.65
(WY)	2001	1993	1979	1981	1967	1991	1967	1990	1966	1966	1966	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1965 - 2001
ANNUAL TOTAL	8030.2	6461.0	
ANNUAL MEAN	21.9	17.7	30.0
HIGHEST ANNUAL MEAN			61.0
LOWEST ANNUAL MEAN			14.1
HIGHEST DAILY MEAN	206	May 24	547
LOWEST DAILY MEAN	1.8	Dec 13	1.8
ANNUAL SEVEN-DAY MINIMUM	2.3	Dec 9	2.3
ANNUAL RUNOFF (AC-FT)	15930	12820	21720
10 PERCENT EXCEEDS	77	48	81
50 PERCENT EXCEEDS	5.3	5.2	8.4
90 PERCENT EXCEEDS	3.2	3.0	4.1

e Estimated